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REASONS FOR ALLOWANCE

1. The prior art, including the disclosures of Alsolaim et al. ("Architecture and Application of a Dynamically Reconfigurable Hardware Array for Future Mobile Communications Systems"), Henry (U.S. Patent No. 4,791,603), Fette et al. (U.S. Patent No. 4,862,407), Bell et al. (U.S. Patent No. 6,081,888), and Crabill (U.S. Patent 6,725,364), has not taught or render obvious the features of configuring the control unit state machine using the fuse map and configuring the control unit lookup table using the table content data as recited in independent claims 1, 17, and 24 (in combination with all other features of the respective independent claim).
2. Claims 2 and 4-11 depend from claim 1 and are considered allowable for at least the reasons given above with respect to claim 1.
3. Claims 18 and 20-23 depend from claim 17 and are considered allowable for at least the reasons given above with respect to claim 17.
4. Claims 25 and 27-30 depend from claim 24 and are considered allowable for at least the reasons given above with respect to claim 24.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BENJAMIN P. GEIB whose telephone number is (571)272-8628. The examiner can normally be reached on Mon-Fri 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alford Kindred can be reached on (571) 272-4037. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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